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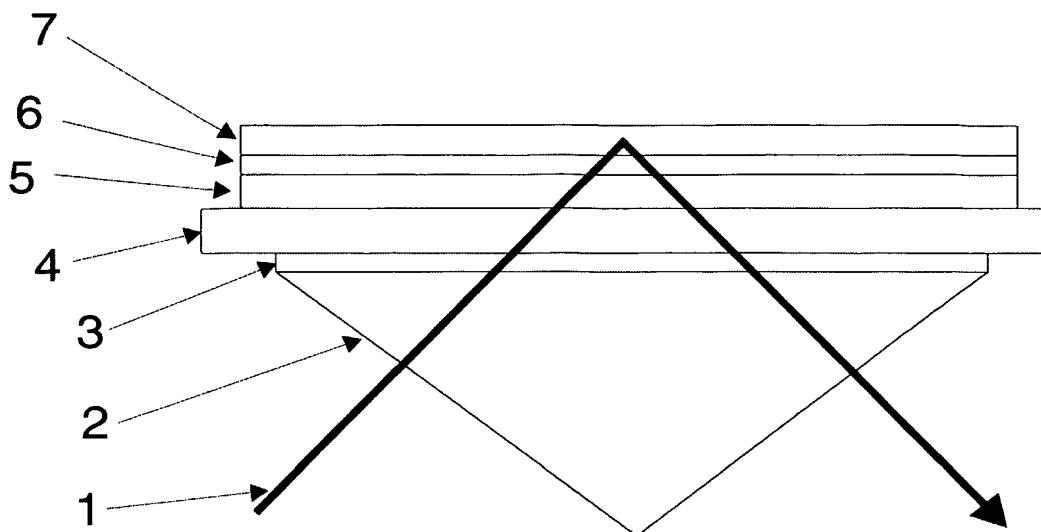
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(54) Title: ELLIPSOMETRIC BIOSENSOR COMPRISING AN AMPLIFICATION LAYER



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(57) Abstract: A method for analyzing organic adsorbent layers (7) on a substrate (4) comprises the steps of providing a substrate (4) whose surface has an index of refraction equal or close to the index of refraction of the organic adsorbent to be analyzed. On the surface of the substrate (4) there is applied a layer system (5, 6) with at least one layer (5) with index of refraction of the biological material and an organic adsorbent layer (7) on top of the layer system. When acting polarized light upon the substrate a change of polarization characteristics in reflection and/or transmission is detected.